



SMC-02-353

December 10, 2003

To: Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Fr: George O. Saile, Reg. No. 19,572
28 Davis Avenue
Poughkeepsie, N.Y. 12603

Subject: | Serial No. 10/661,746 09/12/03 |
Chia-Ta Hsieh
A METHOD TO SHRINK CELL SIZE IN A
SPLIT GATE FLASH
| _____ |

INFORMATION DISCLOSURE STATEMENT

Enclosed is Form PTO-1449, Information Disclosure Citation
In An Application.

The following Patents and/or Publications are submitted to
comply with the duty of disclosure under CFR 1.97-1.99 and
37 CFR 1.56.

CERTIFICATE OF MAILING

I hereby certify that this correspondence is being
deposited with the United States Postal Service as first class
mail in an envelope addressed to: Commissioner for Patents,
P.O. Box 1450, Alexandria, VA 22313-1450, on December 19, 2003.

Stephen B. Ackerman, Reg.# 37761

Signature/Date

 12/19/03

U.S. Patent 5,915,178 to Chiang et al., "Method for Improving the Endurance of Split Gate Flash EEPROM Devices Via the Addition of a Shallow Source Side Implanted Region," discloses a process for fabricating a flash EEPROM device.

U.S. Patent 6,380,583 to Hsieh et al., "Method to Increase Coupling Ratio of Source to Floating Gate in Split-Gate Flash," discloses a split-gate flash memory cell having a three-dimensional source capable of three-dimensional coupling with the floating gate of the cell, as well as a method of forming the same.

U.S. Patent 6,403,494 to Chu et al., "Method of Forming a Floating Gate Self-Aligned to STI on EEPROM," discloses a method for forming a split-gate flash memory cell where the floating gate of the cell is self-aligned to a shallow trench isolation (STI), which in turn makes it self-aligned to source and to word line.

U.S. Patent 6,326,660 to Lin et al., "Method to Improve the Capacity of Data Retention and Increase the Coupling Ratio of Source to Floating Gate in Split-Gate Flash," discloses a method for forming a split-gate flash memory cell having reduced size, increased capacitive coupling and improved data retention capability.

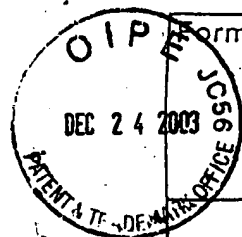
TSMC-02-353

U.S. Patent 5,643,814 to Chung, "Method of Making an EEPROM with an Erase Gate," describes a method of making a split gate flash memory.

Sincerely,

A handwritten signature in black ink, appearing to read 'SBA', with a large loop at the end.

Stephen B. Ackerman,
Reg. No. 37761



Form PTO-1449

INFORMATION DISCLOSURE CITATION
IN AN APPLICATION

(Use several sheets if necessary)

Docket Number (Optional)

TSMC-02-353

Application Number

10/661,746

Applicant

Chia-Ta Hsieh

Filing Date

09/12/03

Group Art Unit

U. S. PATENT DOCUMENTS

| EXAMINER INITIAL | DOCUMENT NUMBER | DATE | NAME | CLASS | SUBCLASS | ALING DATE IF APPROPRIATE |
|---------------------|-----------------|---------|---------------|-------|----------|------------------------------|
| | 5915178 | 6/22/99 | Chiang et al. | 438 | 266 | 12/8/97 |
| | 6380583 | 4/30/02 | Hsieh et al. | 257 | 314 | 10/6/00 |
| | 6403494 | 6/11/02 | Chu et al. | 438 | 719 | 8/14/00 |
| | 6326660 | 12/4/01 | Lin et al. | 257 | 314 | 3/13/00 |
| | 5643814 | 7/1/97 | Chung | 437 | 43 | 12/7/95 |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

FOREIGN PATENT DOCUMENTS

| | DOCUMENT NUMBER | DATE | COUNTRY | CLASS | SUBCLASS | Translation | |
|--|-----------------|------|---------|-------|----------|-------------|----|
| | | | | | | YES | NO |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

OTHER DOCUMENTS (Including Author, Title, Date, Portion or Pages, Etc.)

| | | |
|--|--|--|
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.